		32214 S/139/61/000/0 E032/E314	004/003/023	
6.9100 WTHOR: C	hecha, V.A.	coherently reflected	part of a	io
8	signal on 1ts corr	relation properties shikh uchebnykh zaved	eniy, Fizika,	
TEXT:	no. 4, 1961, 17 - A radio signal re	flected from the iono	sphere consists noncoherent part.	15
(Ref. 1 - into accousignal. 0	Phil. Trans. Roy. int the effect of in the other hand,	the coherently reflect experimental evidence vuz. Radiotekhnika, 2	eted part of the ce indicates , 222, 1959)	20
that the coefficient from the	coherently reflect scattered part. I nt for the square ionosphere. Both	ted part of the signa- The author derives th of the envelope of a the coherent and non the analysis starts wi	e correlation signal reflected	2
that the	envelope is descr	ibed by:	The second secon	

	The effect of	S/139/61/000/004/ B032/B314	003/023	-7.
	E(t) = X(t)cos ω			
	The correlation coefficient	for the square of the	envolon	40
		+ Y ² (t)	enverope, i.e.	4
	is defined by:			45
	$\rho_{R^{0}}(\tau) = \frac{R^{0}(t) R^{0}(t+\tau)}{\overline{R}^{0}(t) - \overline{R}^{0}(t)}$	R(I)		
1	t is shown that the correla	tion coefficient is give	en by:	30
	ρ _{ge} (τ) :	$= \rho_E \frac{\rho_E + 2\beta^2}{1 + 2\beta^2}$		
	4.6-6:	$\int_{-\infty}^{\infty} W(f)e^{r_{m}fr} df$	(7)	557
C	ard $2/6.5$	Winds	(6)	

The effect of

32211 s/139/61/000/004/003/023 E032/E314

10

Eq. (7) expresses the correlation coefficient for the square of the envelope of a random process recorded at the output of a receiver in terms of the field correlation coefficient at the input and the turbidity coefficient β . When the wavelength of the incident wave is large compared with the linear dimensions of the irregularities, the ionosphere may be replaced by a random screen which scatters in accordance with Lambert's law. It is found experimentally that the correlation coefficient for the envelope frequently has negative oscillations and this has been ascribed (Ref. 8 - McNicol, RWE, Proc. IEE, pt.3, 96, 366, 1949) to an inaccuracy in the calculation of the correlation coefficient, associated with the limited number of sampling points. This and other attempts at an explanation of the oscillations in the correlation function are said to be inadequate because they do not take into account the coherently reflected part of the signal. It is shown that the complete formula for a random screen moving with a constant velocity

The effect of

32214 \$/139/61/000/004/003/023 E032/E314

 $\rho_{R}(\tau) = \frac{\left(\frac{\sin\frac{2\pi v\tau}{\lambda}}{\lambda}\right)^{2} + 2\beta^{2}\frac{\sin\frac{2\pi v\tau}{\lambda}}{\frac{2\pi v\tau}{\lambda}}}{1+2\beta^{2}}$

(14) .

Thus, it is clear that the magnitude of the negative oscillations in the correlation coefficient depends both on the drift velocity and the turbidity coefficient.

There are 1 figure and 8 references: 4 Soviet-bloc and 4 non-Soviet-bloc. The four English-language references mentioned are: Ref. 1: quoted in text; Ref. 5: E.N. Bramley, Proc. IEE, pt.1, 98, 19, 1951; Ref. 6: R.B. Banerji, Journ. Atm. Terr. Phys., 6, 50, 1955; Ref. 8: quoted in text.

Card 4/85

CIA-RDP86-00513R000308220016-9 "APPROVED FOR RELEASE: 06/12/2000

The effect of

32214

5/139/61/000/004/005/023 E032/E314

ASSOCIATION:

Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete imeni V.V. Kuybysheva (Siberian Physicotechnical Institute of Tomsk

State University im. V.V. Kuybyshev)

SUBMITTED:

August 22, 1960

41789

\$/194/62/7008/008/070/100 D271/D308

9,400

AUTHORS: Checha, V.A., and Zelenkov, V.E.

TITLE:

Ionosphere drifts in F₂ region in Tomsk during International Geophysical Year and International Geophysical Cooperation

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8,1962, 28-29, abstract 8Zh204 (Tr. Sibirsk. fiztekhn. in-ta pri Tomskom un-te, 1960, no. 38, 23-29)

TEXT: Results are reported of observation of drift of small-scale inhomogeneities of ionization density at the ionospheric station of Sibirskiy fiziko-tekhnicheskiy institut (Siberian Physical and Engineering Institute) between September 1957 and February 1960. The method of scattered reception with small base (100 m) was used in the observations. Histograms of the magnitude and direction of drift velocity, depending on the time of day and on the season, are given. The scatter of drift direction is large at any hour but it is greater in daytime and in the evening. Predominant drift directions in function depend more definitely on the season. At any time Card 1/2

Ionosphere drifts in F₂ region ...

S/194/62/000/008/070/100

of the day, great variations of the drift velocity are observed (20 - 500 m/sec.), and higher values are associated with ionospheric perturbations. Most probable values in the morning and at night are between 40 and 80 m/sec., in daytime - between 120 and 140 m/sec., and in the evening between 60 and 100 m/sec. Velocities vary wide-ly with seasons. the most probable velocities in winter. and in the evening between 60 and 100 m/sec. Velocities vary widely with seasons, the most probable velocities in winter, summer and
autumn being 60 - 80 m/sec., and in spring - 40 - 60 m/sec. Graphs
are produced of the diurnal dependence of the North-South and Eastwest components of the wind velocity for each season. [Abstracter's

Card 2/2

45212 S/203/63/003/001/009/022 A061/A126

AUTHOR:

Checha, V. A.

TITLE:

Investigation results on the parameters of the nonuniform structure of the ionosphere taking account of the part of a signal being coherently reflected in the F2 region

PERIODICAL: Geomagnetizm i aeronomiya, v. 3, no. 1, 1963, 73 - 78

TEXT: Slight nonuniformities of the ionosphere and ionospheric drifts were determined by the spaced reception method. The frequency was varied in the range of 3 mc to 11 mc, and experimental data from the months of March, June, September, October; November, and December 1960, were utilized in the process. The measurement results led to the determination of the degree of nonuniformity of the reflecting region of the ionosphere, the chaotic velocity, the angular spread of the beam of the scattered waves, the dimensions of ionospheric nonuniformities by taking of the phase factor in estimating the dimensions of the nonuniformities Card 1/2

Investigation results on the parameters S/203/63/003/001/009/022

is analyzed. Dimensions of toughly 200 m are obtained when not taking the phase factor into account, and dimensions of 150 - 200 m are obtained when taking it into account. Thus, taking the qoherently reflected part of a signal and the phase factor into account little changes the experigiures and 1 table.

ASSOCIATION: Sibirakiy fiziko-tekhnicheskiy institut pri Tomekom gosutute, Tomsk State University)

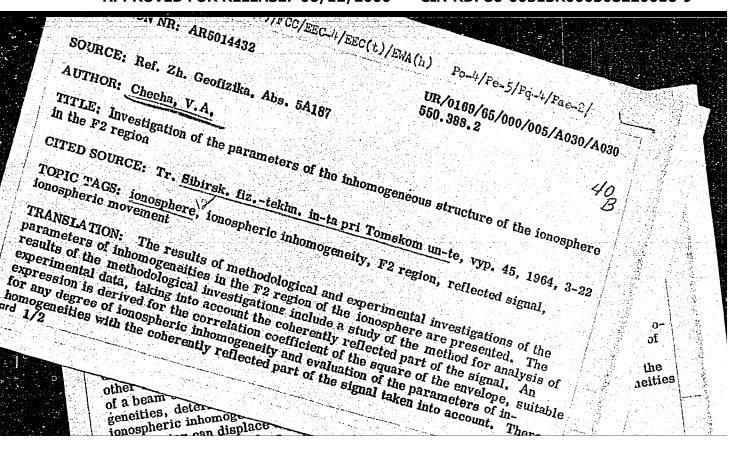
SUBMITTED: July 28, 1962

Card 2/2

CHECHA, V.A.

Scattering on moving inhomogen eities in the ionosphere. Geomag. i aer. 3 no.4:778-779 JI-Ag 163. (MIRA 16:11)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarst-



L 55895-65 ACCESSION NR: AR5014432 is a discussion of the influence of the coherently reflected part of the signal on its correlation properties. The author has studied the problem of the role of the temporal and spatial properties of the scattered field and derived expressions for the energy spectrum and the correlation functions for irregular and rough screens in the presence of random and regular movements. Experimental results have been obtained on the basis of a method generalized for a case when the coherently reflected part of the signal is taken into account. It is shown that, although the parameters computed with and without the coherently reflected part of the signal taken into account can differ appreciably in each individual measurement, when a large volume of experimental data is considered this difference is manifested poorly as a result of averaging the large quantity of data and other causes. The diurnal variation of the inhomogeneous state and the angular scatter of a beam of scattered waves are determined. In a comparison of the sizes of the inhomogeneities, determined from the diffraction pattern at the earth's surface, and the size of ionospheric inhomogeneities it is shown that allowance for the correction given by the phase factor can displace the values of the most probable sizes of inhomogeneities in the direction of smaller values. The results of measurements of the sizes of inhomogeneities are related to the reflecting region. Author's summary SUB CODE: ES ENCL: 00 Card 2/2

EWT(1)/EWG(v)/FCC/EEC-L/EWA(h) Po-L/Pe-5/Pq-L/Pae-2/Peb/P1-L 1 59013-65 UR/0058/65/000/005/H036/H036 AR5015998 ACCESSION NR: SOURCE: Ref. zh. Fizika, Abs. 5Zh248 AUTHORS: Checha, V. A.; Zelenkov, V. Ye. TITLE: Results of investigation of motions of small-scale inhomogenities in the ionosphere over Tomsk during the ICY--IGC period CITED SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom um-te, vyp. 45, 1964, TOPIC TAGS: international geophysical year international geophysical collaboration, ionosphere, ionospheric inhomogeneity, small scale motion, diurnal variation, seasonal variation TRANSLATION: Results are presented of observations made during the period from September 1957 through February 1962. The data obtained by measuring the motion velocity, the diurnal variations of the direction of motion, and the seasonal measurements of motions in the E and F regions of the ionosphere are discussed. A harmonic analysis of the reduction of the diurnal variation of the north-south and east-west components of motion gives two preferred directions of motion: northeast (50°--60°) and soutwest (210°--240°). The results of a harmonic analysis of

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OURCE: Ref. zh. Geofizika Al- 7112 681.14

SOURCE: Ref. zh. Geofizika, Abs. 7A13

AUTHOR: Checha, V.A.; Afraymovich, E.L.

TITLE: A system for feeding experimental data of a 0-1 kc frequency band process into

CITED SOURCE: Tr. Sibirsk. fiz. -tekhn. in-ta pri Tomskom un-te, vyp. 45, 1964,

TOPIC TAGS: universal digital computer, direct input program, computer programming,

TRANSLATION: The authors submit a procedure for feeding data on observations of processes with a frequency of about 100 cycles into a universal digital computer. The input is direct from a one-way magnetic recorder tape and the input program evolved omits standard methods of preliminary transcription to punched tapes, cards, etc. The authors describe an input program to the computer memory system and a block diagram of a system for processing data on ionospheric wind observations. The amplitude of echo signals is converted to a number-pulse code and the latter is recorded together with reference marks on a MAG magnetic recorder. Signals from the magnetic tape are converted into

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	대통화를 화고 가는 사람들이 되었다.	
re led into the compute uires no special equip	niversal digital computer in terms of am er circuit responsible for the trigger cut nent byond a standard computer operation	out. The procedure re-
ability of the computer	ty at an arbitrary instability of tape flow itself when a number of flexible require	v depends only on the re-
ecording are satisfied,	while the rate of input exceeds that from	m punched cards by 200 to
100%. G. Vasil'yev		
SUB CODE: DP	ENCL: 00	
	하는 것이 되는데 이번 경험이 있는 것은 것을 위한다고 한다. 항상 사용 20일 대한 경우 등 경험 경험을 하는 것은 것은 것이다.	
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726 ord 2/2		

POPTSVIATKOV, Gencho; CHECHAYEVA, G.A.[translator]; SATAROV, N,A.
[translator]

General Vladimir Zaimov. Moskva, Voen.izd-vo 1961. 218 p. (MIRA 15:10) (Zeimov, Vladimir, 1888-1942)

CHECHE, A. A. --

"Application of the Variational Method of Prof V. Z. Vlasov to the Solution of Several Practical Problems of Thermal Elasticity." Cand Tech Sci, Belorussian Polytechnical Inst, Minsk, 1954. (RZhMekh, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

244200

28334 s/124/61/000/005/022/032 A005/A130

AUTHOR:

Cheche, A. A.

TITLE:

An approximate calculation of a rectangular plate on an elastic base incident to linear variation of temperature

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 5, 1961, 13, abstract 5V83. (Sb. nauchn. tr. Belorussk. politekhn. in-t, 1959, no. 70, 107 - 115)

The author examines the problem of determination of the stress and TEXT: strain states of a thin rectangular plate supported on an elastic base and subjected to a given temperature action. It is assumed that the elastic constants and linear dilatation coefficient of the plate material do not vary with the temperature. The "one-layer model" with two characteristics that was proposed by V. Z. Vlasov is adopted as the elastic base. For the purpose of integrating the known differential equation for the bending of a plate on an elastic one-layer base, the author uses the V. Z. Vlasov variation method (Tonkostennyye prostranstvennyye sistemy. Moscow, Gosstroyizdat, 1958, 467 - 486). In order to obtain a simple approximate solution, the author confines himself to only the first term of

Card 1/2

28334 s/124/61/000/005/022/032

An approximate calculation of a rectangular plate...

the expansion for the required function of plate deflections; he studies the resulting ordinary differential equation of the fourth order for the case when the given temperature is constant over the entire plate area and varies linearly throughout the thickness of the plate. Depending on the type of roots of the characteristic equation, three different expressions are found for the function of plate deflections. There are 3 references.

N. Leont'yev

[Abstracter's note: Complete translation]



Card 2/2

IZMAIL SKIY, V.A.; CHECHEGOYEVA, Ye.V.

Genetics of the spectra of benzenesulfamilide derivatives. Dokl. AN SSSR 166 no.1:114-117 Ja 166.

1. Laboratoriya khimii krasitaley i problemy tsvetnosti pri Moskovskom pedagogicheskom institute im. V.1. Lenina. Submitted May 20, 1965.

LOZINSKIY, M., doktor tekhn. nauk, prof.; PRIBYLOV, B., kand. tekhn. nauk; CHECHEKIN, Yu., inzh.

At the congress in Leipsig. NTO 6 no.6:57-59 Je 164. (MIRA 17:8)

VYLETNIKOVA, Yelena Pavlovna, kand.tekhn.nauk; PYKHOV, Nikolay
Ivanovich, kand.tekhn.nauk. Prinimali uchastiye: POVOROZHKIKO.
V.V., doktor tekhn.nauk; KOCHETOV, S.N., inzh.. CHECHEL!, A.A.,
red.; BOBROVA, Ye.N., tekhn.red.

[Organization and commercial operations in railway transport]
Organizatsiia perevosok i kommercheskaia rabota na zheleznodorozhnom transporte. Moskva, Gos.transp.zhel-dor.izd-vo. 1959.
522 p. (MIRA 12:11)

BRAZOVSKAYA, Tat'yana Ivanovna; CHECHEL! A.A. rad.; MAL'KOVA, N.V., tekhn, red.

> [Fixed and working capital of automotive transportation units] Osnovnye i oborotnye sredstva avtomobil'nykh khoziaistv. Moskva, Mauchno-tekim.isd-vo M-va avtomobil'nogo transporta i shosseinykh (NIRA 13:2) dorog RSFSR, 1959. 81 p. (Transportation, Automotive -- Accounting)

CHECHE, A.A.

Approximate designing of rectangular elastically supported plates subjected to linear thermal changes. Shor.nauch.trud.Bel. politekh.inst. no.70:107-115 159. (NIRA 13:5)

(Elastic plates and shells)

SOURCE CODE: UR/0000/65/000/000/0015/0026 40971-66 EWT(1)/T ACC NR: AT6020563 AUTHOR: Chechkin, V. V.; Vasil'yev, M. P.; Grigor'yeva, L. I.; Smerdov, B. I. ORG: none TITLE: Absorption of high frequency energy by plasma in the ion cyclotron resonance in strong high frequency fields SOURCE: AN UkrSSR. Vysokochastotnyye svoystva plazmy (High frequency properties of plasma). Kiev, Naukovo dumka, 1965, 15-26 TOPIC TAGS: plasma heating, plasma oscillation, plasma velocity, plasma density, cyclotron resonance, ion beam, electron collision ABSTRACT: The present work continues the study of the absorption of high frequency waves by a plasma in the ion cyclotron resonance. The conditions for heating of plasma by this method and the physical processes which occur in various regimes are briefly reviewed. The nature of energy absorption is studied in the experiment with a high frequency wave applied to the plasma with a density of 1013 electrons/cm3 and an axial current flow of 30 A/cm^2 . It is shown that the absorption of the wave depends on the interaction between ions and electrons of the plasma. This result is described by equations derived for the case of absorption by collisions. In the experiments where the electric field of the wave exceeded the critical value (which determines the maxi-

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Card 1/2

strongly. the cyclotivelocities	tion for to This incr con wave hexceeding	rease is att by high freq	ributed to uency plant l velocity v is with	sma oscillat y of the pla in an order	ions induced sma. The earth of magnitude		ems with Ly determin-	
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CHECHEL!, A. F.

CHECHEL', A. F. - "Repairing tractor parts by high-frequency welding with powdered cast iron". L'vov, 1955. Joint Council, All-Union Sci Res Inst for the Mechanization of Agriculture (VIM), and All-Union Sci Res Inst for the Electrification of Agriculture (VIESKh). (Dissertation for the Degree of Candidate of Tochnical Science.)

SO: Knizhnaya Letopis', No. h3, 22 October 1955. Moscow

CHECHEL!, A.F., kand.tekhn.nauk

Automatic built-up welding of wear-resistant bearing rollers of crawler tractors. Svar. proizv. no.10:37-38 0 '61. (MIRA 14:9)

1. L'vovskiy sel'skokhozyaystvennyy institut.
(Crawler tractors—Maintenance and repair)
(Electric welding)

ZHARKOV, M.A.; CHECHEL', E.I.

Cambrian sediments of the middle and lower Kirenga River. Dokl.

AN SSSR 149 no.4:922-924 Ap '63. (MIRA 16:3)

1. Irkutskoye geologicheskoye upravleniye. Predstavleno akademikom A.L.Yanshinym. (Kirenga Valley-Geology, Stratigraphic)

ZHARKOV, M.A.; CHECHEL, E.I.

Late Pre-Cambrian and Cambrian sediments in the Chay basin (western slope of the North Baikal highland). Dokl. AN SSSR 159 no.1:85-88 N *64. (MIRA 17:12)

l. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom A.L. Yanshinym.

MALINOVSKAYA, L.N.; CHECHEL', I.I.

Distortion of nonsteady vibrations in galvanometric recording.

Trudy Inst. fis. Zem. no.20:125-136 '62. (MIRA 15:8)

(Seismometry)

CHECHEL', I.P., inzh.

Automatic coupling. Trakt. i sel'khozmash. no.12:40 D'65. (MIRA 18:12)

1. Chelyabinskiy traktornyy zavod.

\$/081/60/000/022/009/016 A005/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 22, p. 236, # 89431

AUTHORS:

Azarov, K. P., Chechel, L. D.

करावग्रामः ।

The Role of Hydrogen in the Formation of "Fish Scale" Defect in the

Enamel Coating

PERIODICAL: Tr. Novocherk. politekhn. in-ta, 1959, Vol. 97, pp. 87-91

TEXT: The role of steel and some technological factors in the formation of "fish scales" was studied. The cathodic etching method was used for testing. It turned out that cold rolling and increased steel drawing degree considerably increase the resistance to fish-scale formation; preliminary copper- or iron-plating of the specimens prevents the fish-scale formation; with increasing thickness of the coating the time needed for the fish-scale formation increases; boron-free coatings resist considerably better the fish-scale formation than boric ones. The tests were conducted with the following coating enamels: titanic, cryolitic, and Dutch titanic and cryolitic at the thickness of the roasted coating being 0.15 and 0.40 mm. The tests showed that the titanic enamel withstands well the fish-scale

Card 1/2

S/081/60/000/022/009/016 A005/A001

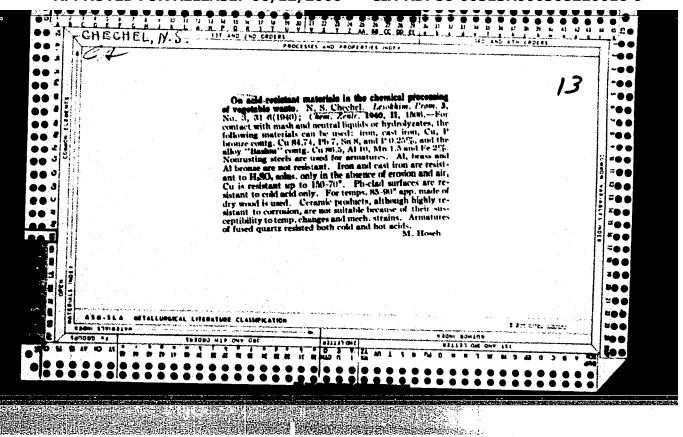
The Role of Hydrogen in the Formation of "Fish Scale" Defect in the Enamel

formation in case of a large coating thickness and weakly resists in a thin layer. The cryolitic and Duch enamels resist well the fish-scale formation in case of both large and small coating thicknesses.

G. Gerashchenko

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2



CHECHEL! N.S.

Mffect of the number of runner blades on power characteristics of high-speed adjustable-blade hydraulic turbines. Trudy LPI no.193:38-50 '58. (MIRA 12:2) (Hydraulic turbines--Blades)

ALEKSANDROVA, T.A., kand.tekhn.nauk; CHECHEL!, M.S., kand.tekhn.nauk

Construction of high-speed hydraulic turbines. Energomashimostroenie 5 no.3:13-17 Mr 159. (NIRA 12:3) (Hydraulic turbines)

L 04065-67 EWP(k)/EWT(d)/EWT(m)/T-2/EWP(w)/EWP(f)/EWP(v)IJP(c) EM/FDN ACC NR: AP6027558 SOURCE CODE: UR/0143/66/000/005/0105/0109 AUTHOR: Staritskiy, V. G. (Candidate of technical sciences); Chechel', N. S. (Candidate of technical aciences) ORG: Leningrad Polytechnic Institute im. M. I. Kelinin (Leningradskiy policekhnicheskiy institut) TITLE: A method of reducing energy losses connected with secondary flows in the vane systems of axial turbines SOURCE: IVUZ. Energetika, no. 5, 1966, 105-109 TOPIC TAGS: axial flow turbine, turbine design ABSTRACT: The article starts with a consideration of the reasons for the appearance of secondary losses. These erise: a) in the case of a fixed grid as a result of the pressure difference between the convex and concave sides of neighboring vanes in the grid; b) in the case of a rotating grid, in addition to the above pressure forces, a centrifugal force is set up in the boundary layer; c) with the presence of sleeves of peripheral gaps, overflow of liquid occurs through the gap as a result of the pressure difference on the two sides of the gap. The article passes on to a consideration of ways to prevent these losses, Card 1/2 UDC: 621.22h.154532.501.312

L 01065-67 ACC NR: AP6027558

including the use of finned vanes. It concludes with the following general recommendations: 1) the fins should be located approximately along the line of flow; 2) the angle between the fin and the vane should be close to a right angle; 3) it is more advantageous to place the fins on the convex side of the vane; however, they can also be installed on the concave side or on both sides; 4) the fins should be installed at some distance from the end of the vane; 5) the height of the fin may be varied along the length of the vane; 6) the number of fins on one side of a vane must be determined experimentally. It is to be expected, however, that the optimum number will not exceed two. Orig. art. has: 3 figures.

SUB CODE: 13/ SUBM DATE: 27Sep65/ ORIG REF: 017/ OTH REF: 008

kb

Card 2/2

AUTHORS:

Chechel', P. S., Antropov, L. I.

75..13..3..19/27

TITLE:

Polarographic Determination of Formic Acid

(Polyarograficheskoye opredeleniye murav'inoy kisloty)

PERIODICAL:

Zhurnal analiticheskoy khimii, 1958, Vol. 13, Nr 3,

pp. 354-359 (USSR)

ABSTRACT:

In the present paper the polarographic behavior of formic acid is investigated. The measurements were made on a Geyrovskiy-polarograph of the type Y-301 the technical data of which are given in detail (analogous to reference 1). In weakly acid sclutions polarograms of formic acid can be obtained. A 0,1n solution of potassium or sodium chloride acidified with hydrochloric acid is best suitable as medium. The reduction of formic acid begins at potentials of from -1.7 to -1,8 V (relative to a normal calomel electrode), where distinctly marked maxima occur in the polarographic curves in the domain of the limiting current. Due to this fact the polarographic behavior of formic acid has hitherto not yet been investigated. By means of the scale of "p-potentials" set up by one of

Card 1/4

Polarographic Determination of Formic Acid

75-13-3-19/27

the authors (Reference 2) compounds can be found the addition of which leads to a suppression of the polarogra. phic maxima. "p. potential" denotes the displacement of the stationary potential of the zero charge of the electrode metal. The nature of the addition depends on the value of the p-potential. Predominant adsorption at the electrodes is brought about for φ(0 by an addition of a cationic type, for φ)0 - an addition of an anionic type and for $\varphi = 0$ - an addition of a molecular type. As in the polarographic investigation formic acid is o(0 (Reference 3), the authors sought additions of a cationic type. Tribenzylamine (C6H5CH2)3N proved to be best suitable for this purpose. The formation of maxima can be completely suppressed, if some drops of a saturated tribenzylamine solution are added to 10 ml of a solution which does not contain more than 0,1 gram-mol/ liter of formic acid. On this occasion the pH. value of the solution shall be 2.4. For every pH-value exists a maximum concentration of formic acid at which normal polarograms are obtained. An increase in concentration of formic acid above this value, or the

Card 2/4

Polarographic Determination of Formic Acid.

75-13-3-19/27

use of solutions with $p_{n} \le 2$ does not lead to reproducible results. In solutions with $p_{H} > 4$ a high concentration of formic acid is needed for maintaining a sufficiently high limiting current, where tribenzylamine does no longer suppress the maxima. The amount of the entire limiting current increases with the concentration of formic acid and the hydrogen ions, as the reduction of formic acid is accompanied by a reduction process of hydrogen ions. The entire limiting current therefore consists of the sum of these two limiting currents. The portion of the limiting current of the reduction of hydrogen ions decreases with increasing pH-value, and already at pH 3 the entire limiting current is entirely determined by the concentration of formic acid. \blacktriangle working prescription for the quantitative polarographic determination of formic acid and its salts in solutions was worked out; it is given in detail. The presence of formaldehyde disturbs, as it prevents the suppression of the polarographic maxima of formic acid.

Card 3/4

Polarographic Determination of Formic Acid

75--13-3--19/27

There are 9 figures and 3 references, 2 of which are

Soviet.

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut im. S. Ordzho-

(Novocherkassk Polytechnical Institute imeni S. Ordzho-

nikidze)

SUBMITTED:

April 17, 1957

1. Formic acid--Determination

Card 4/4

chechell, P.S.

110-4-16/25

Antropov, L.I., Professor, Fedorov, Yu.V., and Chechel', P.S., AUTHORS:

Engineers

Direct Copper-plating of Steel Parts in Acid Sulphate Elec-trolytes with Additives (Pryamoye medneniye stal nykh izdeliy v kislykh sul'fatnykh elektrolitakh s dobavkami)

Vestnik Elektropromyshlennosti, 1958, No. 4, pp. 49 - 52 (USSR). PERIODICAL:

The cheapest baths of copper sulphate and sulphuric acid cannot normally be used for copper-plating of iron. because as soon as iron is put into copper sulphate some of it ABSTRACT: dissolves and a friable and porous deposit of contact copper is formed which is not well bound to the underlying iron. Contact exchange occurs because of the great difference in the normal exchange potential between iron and copper. Methods of reducing the contact volume current are considered; one is to increase the specific polarisibilities of the solution. So far, this method of suppressing contact exchange by retarding the partial electro-chemical reactions has not been used in plating practice, although it is obviously interesting whenever an electropositive metal has to be deposited on an electro-negative base. This principle was used in the investigation described in the Cardl/3 article.

TITLE:

110-4-16/25 Direct Copper-plating of Steel Parts in Acid Sulphate Electrolytes with Additives

It was established that just as inhibitors retard the corrosion of metals, so certain surface-active additives retard the rate of contact exchange. When additives are used, retardation is caused by increase of the anode polarisation during dissolution of iron and of cathode polarisation during deposition of copper, as shown graphically in Fig.1. The rate of contact exchange can be reduced so much that it is possible to plate copper directly onto steel parts in acid sulphate baths without using complex cyanates in the electrolyte. The two surface-active substances used are triben ylamine and thiourea. Using baths with these additives and appropriate current densities and temperatures, good quality copper-plating is obtained on steel. The plating is of much finer structure than that ordinarily obtained from acid electrolytes. It is particularly important to clean the surface thoroughly; a recommended procedure is given and includes de-greasing, pickling and washing. A quantitative method was developed for the determination of

tribenzylamine and thiourea which is based on the ability of surface-active substances to depress the polarographic maximum. Card2/3 The method of doing this is explained and illustrated in Fig. 2.

Direct Copper-plating of Steel Parts in Acid Sulphate Electrolytes with Additives 110-4-16/25

Calibration curves are required for determining concentrations of tribenzylamine and thiourea in dilute solution from polarograms. The construction of these curves is described and specimen curves are shown in Fig. 3. A fully-worked numerical example of analysis is given. Fig. 4 shows a nomogram constructed from the data of Fig. 3 for the case when the amount of thiourea is constant at 0.1 x 10-2 g/litre. With different conditions, other calibrations and nomograms will be required but the principle remains the same.

ASSOCIATION: Novocherkassk Polytechnical Institute (Novocherkasskiy

SUBMITTED:

May 27, 1957

AVAILABLE: Card 3/3

Library of Congress

CHECHEL', P. S. Cand Tech Sci -- (diss) "Reduction of Carbon Dioxide With Amalgam of Sodium." Novocherkassk, 1957. 16 pp 20 cm.

(Min of Higher Education USSR, Novocherkassk Polytechnic Inst im Sergo Ordzhonikidze, Chair of the Technology of Electrochemical Production), 135 copies (KL, 26-57, 109-110)

- 78 -

CHECHEL', P.S.; ANTROPOV, L.I.

Blectrochemical method of producting sodium formate from carbon dioxide and sodium smalgam. Zhur.prikl.khim. 31 no.12:1856-1861 D '58. (MIRA 12:2)

1. Novocherkasskiy politekhnicheskiy institut imeni S. Ordshonikidse.

(Sodium formate) (Carbon dioxide) (Amalgams)

5.(1,2,3) AUTHORS:

Chechel', P. S., Popov, S. Ya.

SOV/153-2-1-14/25

TITLE:

Polarographic Determination of Joiner's Glue and Scap Root in Zine Electrolytes (Polyarograficheskoye opredeleniye stolyarnogo kleya i myl'nogo kornya v tsinkovykh elektrolitakh)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 1, pp 67 - 72 (USSR)
joiner's

ABSTRACT:

The determination of/ glue in electrolytes is usually neglected since the analysis is complicated and tiresome. Joiner's glue is known to be added to many electrolytes used in galvanic technology and hydroelectrometallurgy. The glue content is usually evaluated according to the quality of cathodic deposition. Such an approximate method is obviously unsatisfactory in many cases. In addition to that, soap root (Saponaria officinalis) is contained in the zinc electrolytes used in hydroelectricmetallurgy. It improves the formation of foam on the surface of the electrolyte during the electrolysis. As a result, the air in the electrolysis works department is less contaminated by acid vapors. Nevertheless, the ratio of soap root to jainer's glue in the electrolytes is of some importance since soap root af-

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Polarographic Determination of Joiner's Glue and Soap Root in Zinc Electrolytes

307/153-2-1-14/25

fects also the cathodic separation of zinc. The usual methods of separate determination of the glue and the root have not yet been described up to now. In the present article the authors attempted to develop a rapid and sufficiently accurate method of determining (a) Siner Siue in the chlorine-ammonium-zinc electrolyte (according to reference 1); (b) of the glue and root when commonly present in sulphate-zinc electrolytes which are employed in the hydroelectrometallurgy of zinc (Ref 2). Table 1 shows the composition of these electrolytes. In view of the surface-active properties of the two above-mentioned substances (Refs 3-8) the authors further employed the method of reducing the maxima of the polarographic amplitudes. Figure 1 shows this maxima reduction on zinc polarograms with increasing glue content. Figure 2 contains a calibration curve for determining bone glue in ammonium-zinc electrolytes. Figures 3 and 4 demonstrate the polarographic maying of zinc in the presence of various concentrations of joiner's glue and soap root. Figures 5 and 6 show the dependence of one concentration of glue and root on the logarithm of the maximum on sinc polarograms at various concentrations of soap root and foiner's glue. Figures 7 and 8 containcs-

Card 2/4

Polarographic Determination of Joiner's Glue and Scap 30V/153-2-1-14/25 Root in Zinc Electrolytes

> libration curves for soap root and bone glue. Results of the determination of the glue content in various electrolytes are given in table 2. Similar results were obtained with soap root. The course of analysic is then described. Conclusions: (1) The capability of Giner's glue and soap root of reducing polarographic maxima can be employed for the purpose of determining their concentration in zinc electrolyton with satisfactory accuracy for practical purposes. (2) Winer's glue reduces these maxima more intensely than soap root. The variation of the maximum level by the concentration of one of these substances is independent of the content of the other one. Therefore they can be separately determined if both of them are present in the sulphate-zinc electrolyte. The method of determination devised for the afore-mentioned purpose may be employed also in other cases where simultaneous determination of two surface-active substances is necessary. There are 8 figures, 2 tables, and 8 references, 7 of which are Soviet.

Card 3/4

CIA-RDP86-00513R000308220016-9 "APPROVED FOR RELEASE: 06/12/2000

Polarographic Determination of Joiner's Glue and Soap SOV/153-2-1-14/25 Root in Zinc Electrolytes

ASSOCIATION:

Novocherkasskiy politekhnicheskiy institut; Kafedra elektro-khimii (Novocherkassk Polytechnic Institute, Chair of Electro-

chemistry)

December 16, 1957 SUBMITTED:

Card 4/4

CHECHEL', P.S.; DATSENKO, O.V.

Rapid method of determining the basicity of slags. Izv.vys.ucheb. zav.;khim.i khim.tekh. 5 no.3:367-370 '62. (MIRA 15:7)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz imeni M.I. Arsenicheva, kafedra khimii. (Slag)

GRYUNER, V.S.; CHECHELASHVILI, E.V.

Oils and fats for the production of chocolate. Izv.vys.ucheb.zav.; pishch.tekh. no.5:76-80 '63. (MIRA 16:12)

1. Moskovskiy institut narodnogo khozyaystva imeni G.V.Plekhanova i Gruzinskiy nauchno-issledovatel'skiy institut pishchevoy promyshlennosti, kafedra tovarovedeniya prodovol'stvennykh tovarov.

CHECHELASHVIII, G.L.

200

Experimental tumors of the thyroid gland. Soob. AN Gruz. SSR 30 no.3:347-352 Mr '63. (MIRA 17:6)

1. Institut onkologii, Toilisi. Fredstavleno akademikom K.D. Eristavi.

DZOTSENIDZE, G.S.; SKHIRTLADZE, N.I.; CHECHELASHVILL, I.D.; RUBINSHTEYN, M.M., red.; BAKRADZE, D.S., red, 11d.; DZHAPARIDZE, B.D., tekhn, red.

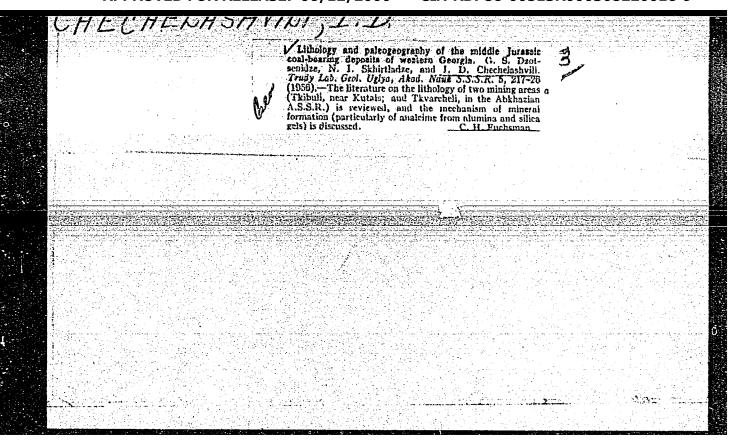
[Lithology of Bathonian sediments in Okriba] Litologiia batskikh otloshenii Okriby. Tbilisi, Isd-vo Akad.nauk Grus.SSR, 1956. 185 p. (Akademiia nauk Grusinskoi SSR. Tiflis. Institut geologii i mineralogii. Monografii, no.7) (MIRA 12:3) (Okriba-Sediments (Geology))

DZOTSKNIDZE, G.S.; SKHIRTLADZE, N.I.; CHECHELASHVILI, I.D.;

Authigenic minerals in coal-bearing deposits of Okriba in western Georgia. Vop.min.osad.obr. 3/4:326-336 '56. (MLRA 9:11)

1. Institut geologii i mineralogii Akademii nauk Gruzinskoy SSR, Tbilisi.

(Okriba--Mineralogy) (Okriba--Ceal)



DECTS MIDTH, G.S.; SMHIRTLADZ: N.I. CHECH LASHVILL I.D.

Noterials on the lithology of pre-Bathian formations in the Towarcheli conlicewest and adjacent regions. Trudy Instageol. AN Graz. SSR. Min. i petr.ser. 4:65-106 '58. (MILL 19:11) (Georgia--Coal geology)

Inthology of Bethenian codiments in the Marchiti-Mathure region.

Truck Inst.sect. AN Gree. SeR. Min. i petr.ser. 4:107-150 150.

(Thibul region--Coal scology)

CHECHETASHVILI, I.D.

Authigenic minerals in coal-bearing deposits and in Callovian and Oxford stages of the Bayb' coal deposits. Soob. AN Grus. SSR 21 no.4:443-448 0 '58. (NIPA 12:4)

1. AW GrusSSR, Geologicheskiy institut, Tbilisi. Predstavleno akademikon G.S. Drotsenidse. (Georgia--Kineralogy)

CHECHELASHVILI, I.D.

Conditions governing the deposit of the coal-bearing series of the Bsyb' coal field. Soob.AN Gruz.SSR 23 no.4:427-430 0 159.

(MIRA 13:5) 1. Akademiya Hauk Gruzinskoy SSR, Geologicheskiy institut. Predstavleno akademikom G.S.Dzotsenidze. (Georgia--Coal geology)

CHECHELASHVILI, I. D., Cand Geol Mineral Sci -- (diss) "Lithology of the Coal-Bearing Stratum and Deposits Contiguaous With It in the Region of the Bzybskoye Coal Bed." Tblisi, 1960, 19 pp, (Tblisi State Univ im Stalin) 150 copies, free (KL, 21-60, 120)

CHECHELASHVILI, I.D.

Lithology of the coal-bearing series and adjacent sediments in the area of the Bsyb' coal deposit. Trudy AN Gruz.SSR.Min.i petr.ser 5:149-178 '61. (MIRA 14:6)

(Bsyb' Valley—Coal geology)

SKHIRTLADZE, N.I.; CHECHELASHVILI, I.D.

Lithology of coal-bearing sediments in the northern run of the Tkvarcheli coal deposit. Trudy Geol.inst.AN Gruz.SSR. Min. i petr. ser. 6:107-136 '61. (MIRA 15:9) (Tkvarcheli region—Coal geology)

CHECHELASHVILI, I.D.

Authigenic feldspars in carbonate flysch of the Upper Racha. Soob. AN Gruz. SSR 33 no.3:585-590 Mr 64 (MIRA 17:8)

1. Geologicheskiy institut AN GruzSSR. Predstavleno akademikom G.S. Dzotsenidze.

CHECHELASHVILI, 1.D.; KOPALEYSHVILI, A.D.

Rudaceous rocks in the carbonate flysh of Pacha-Svanetiya. Soob. AN Gruz. SSR 36 no.3:617-624 D '64.

(MIRA 18:3)

1. Geologicheskiy institut AN GruzSSR, Tbilisi. Submitted May 14, 1964.

CHECHELASHVILI, I.D.; BERIDZE, M.A.

Lithclogy of Paleogene formations in southeastern Georgia. Trudy Geol. inst. Gruz.SSR no.3:59-102 '65.

(MIRA 18:11)

CHECHELASHVILI, M. Ya.; BOKARIUS, V.N.

Case of toxoplasmosis in legal medical practice. Sudy-med. ekspert. 3 no.3:45-47 Jl-S *60. (MIRA 13:9)

1. Kafedra sudebnoy meditsiny (nachal'nik - prof. I.F. Ogarkov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova. (TOXOPLASMOSIS)

CHECHELEY, I.

Reduced units, cost, economics. Grashd. av. 20 no.1:19
Ja 163. (MIRA 16:4)

(Aeronautics, Commercial—Management)

CHECHELEVA, T.V.

Improvement in the material welfare of the Kazakhstan collective farm peasantry (1953-1959). Vest.AN Kazakh.SSR 17 no.6:71-78
Je '61. (MIRA 14:6)

(Kazakhstan-Collective farms)

CHULANOV, Gabdulla Chulanovich; ISHMUKHAMEDOV, Bukenbay Mergaliyevich; CHECHELEVA, Tat'yana Vasil'yevna; ZHUBANOVA, Zarya Galimovna; ROLTOCHNIK, N.I., red.; ROROKINA, Z.P., tekhn. red.

[Studies on the history of the national economy of the Kazakh S.S.R.] Ocherki istorii narodnogo khoziaistva Kazakhskoi SSR. [By] G.Ch.Chulanov i dr. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR. Vol.2.[From 1928 to June 1941] 1928 god - iiun' 1941 goda. 1962. 374 p. (MIRA 15:8)

1. Akademiya nænk Kazakhskoy SSR, Alma-Ata. Institut ekonomiki. (Kazakhstan-Economic conditions)

CHULANOV, G.Ch., doktor ekon. na.k, prof.; KISELEVA, L.I.; ZHUBANOVA, Z.G.; TAYBEKOV, I.Ye.; DZHAKSALIYEV, B.M.; ISHMUKHAMEDOV, B.M.; CHECHELEVA, T.V.; KUZNETSOV, Yu.N., red.; POGOZHEV, A.S., red.; ROROKINA, Z.P., tekhn. red.

[Essays on the history of the national economy of the Kazakh S.S.R.] Ocherki istorii narodnogo khoziaistva Kazakhskoi SSR. Alma-Ata, Izd-vo AN Kaz.SSR. Vol.3. [June 1941 to 1945] Iiun 1941 goda - 1945 god. 1963. 299 p. (MIRA 17:1)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut ekonomiki.

2. Chlen-korrespondent AN Kaz.SSR (for Chulanov).

NEUDACHIN, A.P., inzh. [deceased]; RUTENBURG, I.A., inzh.; CHECHEL'NITSKAYA,
A.M., inzh.

Using single-pipe heating systems on ships. Sudostroenie 24 no.5:67-68 My *58. (MIRA 11:6) (Ships--Heating and ventililation) (Marine pipe fitting)

VAYSHTEYN, M.A. [decembed], GAZIZOVA, G.R., VASIL'YEVA, L.D., CHECHEL'NITSKAYA, S.E.

Studies on Q fever in the Tarter Republic. Zhur. mikrobiol.epid.
i immun. 29 no.9:110-115 S '58 (MIRA 11:10)

CHECHEL HITSKAYA. S.E.; BAYGULEVA, S.A.; YAKOBSOH, D. Ya.; VAYMAN, T.I.

Material on the spread of Lamblia and other flagellate parasites of the intestine among younger children. Med.paras. i paras.bol. 28 no.2:231-232 Mr-Ap 159. (MIRA 12:6)

1. Iz Kazanskoy gorodskoy sanitarno-epidemiologicheskoy stantsii i Kazanskogo nauchno-issledovatel skogo instituta epidemiologii i gigiyeny.

(VORMS, INTESTINAL AND PARASITIC)

CHECHELNITSKAYA. S. I., SERGEYEVA, P. A., CAZIZOVA, G. R.,

"On the dissemination of Q fever in the TASSR." p. 139

Desyatoye Soveshchaniye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Kazan Inst. of Epidemiology and Hygiene

CHECHEL' MITSKAYA, S.M.; BAYGULOVA, S.A.

Duration of tertian malaria with long and short incubation periods. Med.paras. i paras. bol.24 no.3:217-220 J1-S '55.

(MLRA 8:12) 1. Is Kasanskoy gorodskoy protivomalyariynoy stantsii (sav.stantsiyey S.M.Chechel'nitskaya.

(MALARIA,

tertian, duration in short & long incubation times)

Chechelinitshaya, S.M.

CHECHEL NITSKAYA, S.M.; BAYGULOVA, S.A.

Effectiveness of quinocide in the treatment of tertian malaria [with summary in English]. Med.paras. i paras. bol. 26 no.3: 268-289 My-Je 157. (MIRA 10:11)

1. Iz Kazanskoy gorodskoy sanitarno-epidemiologicheskoy stentsii.

(ANTIMALARIAIS, therapeutic use,
quinocide in tertian malaria (Rus))

SARIKYAN, S.Ya., CHECHEL'NITSKAYA, S.M., BAYGULOVA, S.A., LATYPOVA, G.Kh., MILITSINA, A.H.

The problem of correct organization of malaria control in the Tatar A.S.S.R. [with summary in English]. Med.paraz. i paraz.bol. 27 no.3:304-309 My-Je '58 (MIRA 11:7)

1. Iz sektora bor'by z parazitarnymi boleznyami pri stroitel'stve gidrotekhnicheskikh i meliorativnykh scoruzheniy Instituta malyarii. meditsinskoy parazitologii i gel'mintologii Ministerstva zdravookhraneniya SSSR (dir. instituta - prof. P.G. Sergiyev, zav. sektorom - prof. V.N. Bekhlemishev) i Kazanskoy gorodskoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach TS.D. Matt).

(MALAHIA, prevention and control in Russia (Rus))

CHECHEL'NITSKIY, A.K.

Wider use of arch dams. Energ. i elektrotekh. prom. no.2:56-58 Ap-Je '62. (MIRA 15:6)

MEDVEDEV, M.; CHECHEL NITSKIY, A.

Standardisation of buildings and structures among branches of industry. Prom. stroi.i insh. soor. 4 no.5:44-49 S-0 '62.

(MIRA 16:1)

1. Direktor Nauchno-issledovatel'skogo instituta eksperimental'nogo proyektirovaniya Akademii stroitel'stva i arkhitektury
UkrSSR (for Medvedev). 2. Glavnyy spetsialist sektora Nauchnoissledovatel'skogo instituta eksperimental'nogo proyektirovaniya
Akademii stroitel'stva i arkhitektury UkrSSR (for Chechel'nitskiy).

(Industrial buildings-Design and construction)

CHECHEL'NITSKIY, A.

Complex use of water resources of rivers in the western provinces of the Ukrainian S.S.R. Rech. transp. 21 no.3:34-35 Mr 162.

(MIRA 15:4)

1. Glavnyy spetsialist Nauchno-issledovatel'skogo instituta eksperimental'nogo proyektirovaniya Akademii stroitel'stva i arkhitektury USSR.

(Ukraine--Inland water transportation)

CHECHEL'NITSKIY, A.K.

Hydroelectric power and overall utilization of the water power resources of rivers of the Ukrainian S.S.R. Energ. i elektrotekh. prom. no.2:54-58 Ap-Je *63. (MIRA 16:7)

1. Nauchno-issledovatel'skiy institut eksperimental'nogo proyektirovaniya Akademii stroitel'stva i arkhitektury UkrSSR. (Ukraine-Hydroelectric power)

CHECHEL NITSKIY, A., inch.

Standardization of industrial buildings in industrial and powerplant districts. Prom. stroi. i inzh. soor. 5 no.5:17-23 S-0 '63. (MIRA 16:12)

CHECHEL NITSKIY, A.K., insh.

Standardization of hydroelectric power stations. Fnerg, i elektrotekh. prom. no.2241-44 Ap-Je *65. (MIRA 18:8)

CHECHELNITSKIY, G.G.

S/032/62/028/001/014/017 B116/B108

AUTHORS:

Garber, R. I., Gindin, I. A., Neklyudov, I. M.,

Chechel nitskiy, G. G., and Stolyarov, V. M.

TITLE:

Device for programmed metal hardening

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 1, 1962, 107 - 109

TEXT: A device has been designed for programming the load on samples. It permits determining the effect of the charging rate on the material properties up to 800°C in a vacuum of 10^{-6} mm Hg or in inert gases. The charging rate can be increased from 10 g/mm² per hr to 3 kg/mm² per hr. Moreover, rates of up to 80 kg/mm² per hr are possible. The maximum load is 350 kg. The sample elongation (up to 4 - 5 mm with an error of 0.5 μ) is measured with an optical strain gauge. Reduction of the charging rate to values corresponding to diffusion hardening lowers both the total deformation and the rate of steady creep. The device (Fig. 1) operates as follows: Dynamometer spring (6) is compressed by the reducing gear (7). The charging rate is regulated by varying the periodic operation of the motor (8) (PX-09 (RD-09)-type) driving the gear

Card 1/3

Device for programmed metal hardening

S/032/62/028/001/014/017 B116/B108

(7). The sample is heated by a tubular furnace with molybdenum coil, and the temperature is regulated by an 3ML-12 (EPD-12) electronic potentiometer. There are 4 figures and 6 Soviet references.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk USSR (Physico-technical Institute of the Academy of Sciences UkrSSR)

Fig. 1. Diagram of device for programmed hardening.
Legend: (1) sample; (2) and (3) fastenings; (4) cross piece; (5) three bars; (6) dynamometer spring; (7) reducing gear; (8) motor; (9) ball-bearing joint; (10) indicator; (11) mains connection; (12) base plate; (13) vacuum chamber; (14) sylphon; (15) limiter; (16) to pump.

Card 2/3

GARBER, R.I.; GINDIN, I.A.; STOLYAROV, V.M.; CHECHEL'NITSKIY, G.G.; CHIRKINA, L.A.

Apparatus for studying the damping of low-frequency torsional oscillations. Prib. i tekh. eksp. 8 no.3:172-174 My-Je '63.

(MIRA 16:9)

1. Fisiko-tekhnicheskiy institut AN UkrSSR.
(Oscillations--Electromechanical analogies)

L 8161-66 EPF(n)-2/EWT(1)/T-2/ETC(m) WW/DJ

ACC NR: AP5025004

SOURCE CODE: UR/0286/65/000/016/0063/0004

AUTHORS: Donde, A. L.; Chechel'nitskiy, G. G. 114 5

ORG: none

TITLE: Sorption vacuum pump. Class 27, No. 173875 [announced by Physico-technical Institute of the AN UkrSSR (Fiziko-tekhnicheskiy institut AN UkrSSR) 114/55

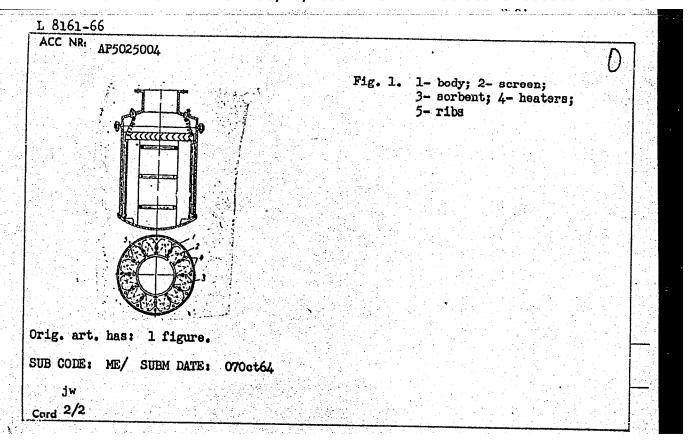
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 63-64

TOPIC TAGS: sorption pump, vacuum pump, pump

ABSTRACT: This Author Certificate presents a sorption vacuum pump consisting of a body with a screen for the sorbent, electric heaters which are switched on during regeneration periods, and a Dewar container which is placed over the body during pumping (see Fig. 1). To speed the sorbent cooling and heating and to increase its active area, the body is equipped with vertical ribs while the screen is in the shape of a many-sided star. In another version the body at the inlet is equipped with a louvered screen to prevent contamination of the sorbent with steam, carbon dioxide, and other high condensating temperature gases.

Card 1/2

621.521



KOTLYAR, P.S., inzh.; PEREL'MAN, B.M., inzh.; CHECHEL'NITSKIY, I.G., inzh.

Redesign of truck cranes. Bezop. truda v prom. 8 no.9:47-49 S 164 (MIRA 18:1)

1. Upravleniye Kiyevskogo okruga Gosudarstvennogo komiteta pri Sovete Ministrov UkrSSR po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru (for Kotlyar). 2. Upravleniye spetsial nykh mashin Glavkiyevforstroya (for Perel'man, Chechel'nitskiy).

CHECHEL'NITSKIY, I.I., inshener: ESHONDER, G.L., inshener.

Mechanisation of welding processes in gas pipe construction. Gor.khos.Mosk. 21 no.2:20-23 F '47. (MERA 6:11) (One pipes) (Electric welding)

CHECHEL WITSKIY, I.I., insh.; VEYS, L.E., insh.; KHARKEYEVICH, Yu.A., insh. Festive outdoor lighting in Moscow. Gor.khoz.Mosk. 31 no.12:26-27 (MIRA 10:12)

D 157.

(Moscow-Lighting, Architectural and decorative)

CHECHEL NITSKIY, 1.1.

Efficient methods for centralised heating with an automatically controlled heat supply system. Gor. khoz. Mosk. 33 no.7:9-14 J1 159. (MIRA 12:10)

l.Zamestitel' nachal'nika Upravleniya toplivno-energeticheskogo khozyaystva Mosgorispolkoma.

(Noscow--Heating from central stations)

(Automatic control)

CHECHEL'NITSKIY, I.I.

Problems of a centralized heat supply for Moscow. Gor. khoz. Mosk. 36 no.3:10-15 Mr 162. (MIRA 15:6)

CHECHEL'NITSKIY, I.I.

Learn last winter's lessons. Gor. khoz. Mosk. 37 no.7:6-7 J1 '63. (MIRA 16:11)

BUDANOV, G.V., inzh., red.; KARPOVSKIY, I.I., inzh., red.; FERBEROV, L.Ya., inzh., red.; CHECHEL!NITSKIY, I.P., inzh., red.

[Price list No.1 of the average district estimated prices for materials, articles and elements] TSennik No.1 srednikh raionnykh smetnykh tse. na materialy, izdeliia i konstruktsii. Moskva, Stroiizdat. Pt.5. 1965. 421 p.

(MIRA 18:8)

1. Russia (1923- U.S.S.R.) Gosudarsivennyy komitet po delam stroitel'stva.

DUBITSKIY, L.G.; CRITSEVICH, G.V., inzh., retsenzent;
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